



Dart Hawkesbury  
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada  
Tel (613) 632-5200

## Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Agri Day
PO038763	MEC002-VU	1	1	Net 30	M2024T3A.750X.750X.063W	Angle2024T3511 .750 x .750 x .063w : MATERIAL: 2024- T3/T3510/T3511 ALUMINUM ANGLE PER AMS-QQ-A- 200/3 OR AMS 4152/4164/4165 receive ft				24	3/27/2018	24		S049805	Stock	3/9/2018	\$ 35.51 / ft	
Total:										24		24						

Plex 3/9/2018 2:23 PM Dart.Dubois.Pascal



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

# **PURCHASE ORDER** **PO038763**

**Supplier:** MEC002-VU  
Metaux Castle  
P.O. Box 4090 Stn A  
Toronto  
ON  
M5W OE9 Canada

**PO No:** PO038763

**PO Date:** 1/11/18

**Due Date:** 3/27/18

**Purchase Order  
Revision:**

**Revision Date:**

**Ship-To Contact:** Lavoie, Chantal  
clavoie@dartaero.com

**Via:** Ground

**Pynt Terms:** Net 30

**Freight Terms:**

**Special Comments:**

**E-MAILED**  
JAN 11 2018

**Ship To:** 1270 Aberdeen Street  
Hawkesbury  
ON  
K6A 1K7 Canada  
Phone: 613-632-5200

## Items

Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
1	M2024T3A.750X.750X.063W	60-34384-23-144	Angle2024T3511 .750 x .750 x .063w : MATERIAL: 2024-T3/T3510/T3511 ALUMINUM ANGLE PER AMS-QQ-A-200/3 OR AMS 4152/4164/4165 receive ft	Firmed	3/27/18	24 ft	0 ft	24 ft	\$35.51/ft	\$852.24
<b>Grand Total:</b>										<b>\$852.24</b>

## Order Notes

### Procurement Quality Clauses

A005 right of entry  
A012 chemical and physical test report  
A016 personnel qualification  
A017 raw material identification (as applicable)  
A026 certification of material conformance  
A041 quality management system  
A042 dart notification by supplier  
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dartaerospace.com](http://www.dartaerospace.com) for further explanation.

Plex 1/11/18 10:27 AM dart.lavoie.chantal



Castle Metals®

A. M. Castle & Co.

PACKING SLIP/  
CERTIFICATE OF CONFORMANCE

Page 1 of 2

Shipment No: 3534427

<b>Ship From:</b> A. M. CASTLE & CO. 2150 ARGENTIA ROAD MISSISSAUGA, ON L5N 2K7 CAN		<b>Sold To:</b> DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA		<b>Ship To:</b> DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CAN		<b>Deliver To:</b> DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	
<b>Date Shipped</b> 08-MAR-18	<b>F.O.B.</b> ORIGIN	<b>Freight Terms</b> Prepaid		<b>Carrier</b> MANITOU LIN		<b>BOL No</b> 3534427-2	

Shipment Details

Final Destination Branch - TOR

<b>Order No</b> 5009081	<b>Line No</b> 1	<b>Item No</b> 60-34384-23-144	<b>Description</b> 60-34384-2024, T3511, ALUMINUM, 144.0000, A01 SPECIFICATIONS: AMS-QQ-A-200/3
<b>Purchase Order No</b> 38763	<b>Part Number</b> 24.00 FT		<b>Invoice Qty</b> 24.0000 FT
<b>Details</b> ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX: HEAT #S Email P/s and certs to: clavole@dartaero.com END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS			

<b>Delivery No.</b> 121652589	<b>Mill/Source</b> UNIVERSAL ALLOY CORP.	<b>Heat Number</b> C737816	<b>Mech Id</b> 1	<b>PCS</b> 1	<b>Width (IN)</b>	<b>Length (IN)</b> 144.0000	<b>Shipped Qty(LBS)</b> 1.3080
121652589	UNIVERSAL ALLOY CORP.	C737816				144.0000	1.3080

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A. M. Castle & Co. within 60 days of the shipment. Material cut to the correct size or material cut by the customer cannot be returned for credit.

Date Printed: 08-MAR-2018 02:51:35 PM

24041291



**Castle Metals®**

A. M. Castle & Co.

PACKING SLIP/  
CERTIFICATE OF CONFORMANCE

Reviewed by Authorized Castle Metals Representative

Date:

Name:

MAR 08 2018

Page 2 of 2



**UAC****EXTRUSION MILL CERTIFICATE OF CONFORMANCE**

Inspection &amp; Test Report

Page 1 / 1

Customer	CASTLE METALS AEROSPACE, 4175 ROYAL DRIVE, SUITE 600		
Certificate Date	05/25/2017	Purchase Order	426750 / 1
Material	2024	Order Number	513776
Temper	T3511	Part Number	GS180A8BF Rev. BG / TMS60-34384
Specification(s)	AMS-QQ-A-200/3 REV. N/C, AMS 4165 REV. H, ASTM B 221 REV. 14		

Chemical Composition Limits		Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others	
										Each	Total
*Remainder aluminum	Min	0.0	0.0	3.8	0.30	1.2	0.0	0.0	0.0		
	Max	0.50	0.50	4.9	0.9	1.8	0.10	0.25	0.15	0.05	0.15

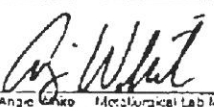
Tensile Test Results				UTS	TYS	Elongation
Lot No.	Temper	Orient.	Location	ksi	ksi	%
C737816	T3511	L	Rear	74.2	56.9	13.9

**Additional Information**

AMC CA-01113 R 5

This is to certify that material applies to the above order covered by this test report has been inspected in accordance with the specifications and drawing forming a part of this order and conforms with the contract. Representative material has been tested and found to meet the applicable requirements. Further shown are the composition limits and laboratory test results. Documentation verifying performance to these requirements is on file and available for review.

UNIVERSAL ALLOY CORPORATION

180 Lamar Haley Parkway  
Canton, GA 30114  
Angie Lenoir Metallurgical Lab Manager  
QUALITY ASSURANCE DEPARTMENT

737816T04

COUNTRY OF MELT & MANUFACTURE - U.S.A.  
Rev. 04/18/2016



# EXTRUSION MILL CERTIFICATE OF CONFORMANCE

Inspection & Test Report

Page 1 / 1

Customer	CASTLE METALS AEROSPACE, 4175 ROYAL DRIVE, SUITE 500		
Certificate Date	05/26/2017	Purchase Order	425750 / 1
Material	2024	Order Number	513776
Temper	T3511	Part Number	CS180A8SF Rev. BG / TMS60-34384
Specification(s)	AMS-OO-A-200/3 REV. H/C, AMS 4165 REV. H. ASTM B 221 REV. 14		

Chemical Composition Limits		Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti				Others	
													Each	Total
*Remainder aluminium	Min	0.0	0.0	3.8	0.30	1.2	0.0	0.0	0.0					
	Max	0.50	0.50	4.9	0.9	1.8	0.10	0.25	0.15				0.05	0.15

Tensile Test Results				UTS	TYS	Elongation
Lot No.	Temper	Orient.	Location	ksi	ksi	%
C737816	T3511	L	Rear	74.2	55.9	13.5

## Additional Information

AMC CA-01113 R 5

This is to certify that material applied to the above order covered by this test report has been inspected in accordance with the specifications and drawing forming a part of this order and complies with the contract. Representative material has been tested and found to meet the applicable requirements. Further shown are the composition limits and laboratory test results. Documentation verifying conformance to these requirements is on file and available for review.

UNIVERSAL ALLOY CORPORATION  
180 Lamar Haley Parkway  
Canton, GA 30114

Angelo Cusato, Metallurgical Lab Manager  
QUALITY ASSURANCE DEPARTMENT



737816T04

COUNTRY OF MELT & MANUFACTURE - U.S.A.  
Rev. 04/18/2016


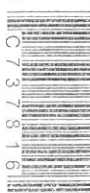
INTERORG TRANSFER  
PACKING SLIP/  
CERTIFICATE OF CONFORMANCE

Page 1 of 2

Shipment No:3527381

<b>Ship From:</b>		<b>Sold To:</b>	<b>Ship To:</b>	<b>Deliver To:</b>
A. M. CASTLE & CO. 4175 ROYAL DRIVE SUITE 600 KENNESAW, GA 30144 USA		DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	A. M. CASTLE & CO. 2150 ARGENTIA ROAD MISSISSAUGA, ON L5N 2K7 CAN	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA
<b>Date Shipped</b>	<b>F.O.B.</b>	<b>Freight Terms</b>	<b>Carrier</b>	<b>BOL No</b>
01-MAR-18	ORIGIN	Prepaid	ARCBEST	3527381-2

<b>Shipment Details</b>	<b>Final Destination Branch - TOR</b>
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Order No	Line No	Item No	Description				
5009081	1	60-34384-23-144	60-34384.2024.T3511.ALUMINUM.144.0000.A01 SPECIFICATIONS: AMS-QQ-A-200/3				
Purchase Order No	Part Number	Ordered Qty	Invoice Qty				
38763		24.00 FT	24.0000 FT				
Details	ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #'S Email P/s and certs to: clavoie@dartaero.com END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS						
Delivery No.	Mill/Source	Heat Number	Mech Id	PCS	Width (IN)	Length (IN)	Shipped Qty(LBS)
121652589	UNIVERSAL ALLOY CORP.			1		144.0000	1.3080
121652589	UNIVERSAL ALLOY CORP.			1		144.0000	1.3080

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. Government or as otherwise authorized by U.S. law and regulations.

INTERORG TRANSFER  
PACKING SLIP/  
CERTIFICATE OF CONFORMANCE

Page 2 of 2

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to ALM, Castie & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.

Reviewed by Authorized Castie Metals Representative:

*Walter Wilson*

Date:

Name:

**UAC****EXTRUSION MILL CERTIFICATE OF CONFORMANCE**  
Inspection & Test Report

Page 1 / 1

Customer	CASTLE METALS AEROSPACE, 4175 ROYAL DRIVE, SUITE 600		
Certificate Date	05/26/2017	Purchase Order	426750 / 1
Material	2024	Order Number	513776
Temper	T3511	Part Number	GS180A8BF Rev. BG / TMS60-34384
Specification(s)	AMS-QQ-A-200/3 REV. N/C, AMS 4165 REV. H, ASTMB 221 REV. 14		


Chemical Composition Limits		Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others	
		Each	Total								
*Remainder aluminium	Min	0.0	0.0	3.8	0.30	1.2	0.0	0.0	0.0		
	Max	0.50	0.50	4.9	0.9	1.8	0.10	0.25	0.15	0.05	0.15

Tensile Test Results				UTS	TYS	Elongation
Lot No.	Temper	Orient.	Location	ksi	ksi	%
C737816	T3511	L	Rear	74.2	55.9	13.9

**Additional Information**

AMC CA-01113 R 5

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UNIVERSAL ALLOY CORPORATION  
180 Lamar Haley Parkway  
Canton, GA 30114  
Angie White Metallurgical Lab Manager  
QUALITY ASSURANCE DEPARTMENTCOUNTRY OF MELT & MANUFACTURE - U.S.A.  
Rev. 04/18/2016

737816T04

**UAC****EXTRUSION MILL CERTIFICATE OF CONFORMANCE**  
Inspection & Test Report

Page 1 / 1

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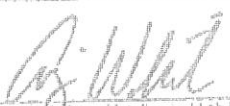
Chemical Composition Limits		Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others	
										Each	Total
*Remainder aluminium	Min	0.0	0.0	3.8	0.30	1.2	0.0	0.0	0.0		
	Max	0.50	0.50	4.9	0.9	1.8	0.10	0.25	0.15	0.05	0.15

Tensile Test Results				UTS	TYS	Elongation
Lot No.	Temper	Orient.	Location	ksi	ksi	%
C737816	T3511	L	Rear	74.2	56.9	13.9

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180 Lamar Haley Parkway  
Canton, GA 30114  
Angie White Metallurgical Lab Manager  
QUALITY ASSURANCE DEPARTMENTCOUNTRY OF MELT & MANUFACTURE - U.S.A.  
Rev 04/18/2016

737816T04

## MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M202413A-750X.750X.063W PO / BATCH NO.: 038763/5049805  
 DATE: MAR 09 2018

MATERIAL CERT REC'D: YES  
 QUANTITY RECEIVED: 24'  
 QUANTITY INSPECTED: 24'  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .063W  
 THICKNESS RECEIVED: .063W  
 SHEET SIZE ORDERED: N/A  
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL PER M-DRAWING	(Y) N	<u>AMS-QQ-A-200/3</u>
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	(Y) N	<u>Heat # 6737816</u>
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>11</u> DATE: <u>9-MAR 09 2018</u>	SIGNED OFF BY: _____ DATE: _____

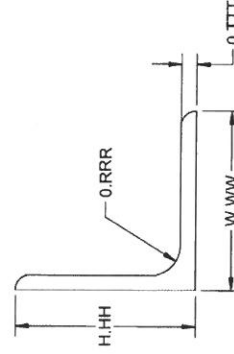
Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 2024-T3/T3510/T3511 ALUMINUM ANGLE  
PER AMS-QQ-A-200/3  
OR AMS 4152, 4164 & 4165

PART NUMBER: M2024T3A H.HH X W.WW X TTT X O.RRR WHERE H.HH = HEIGHT  
W.WW = WIDTH  
O.TTT = THICKNESS  
O.RRR = RADIUS

E.G. 0.75" X 0.75" X 0.125" X 0.125" = M2024T3A H0.75XW0.75XT0.125XR0.125



RELEASED  
2011-03-22

REV.	NEW ISSUE		DESCRIPTION		AJS	BY	DATE
	DESIGN	AJS	DART AEROSPACE LTD				11.02.14
DRAWN		AJS	HAWKESBURY, ONTARIO, CANADA				REV. A
CHECKED			DRAWING NO.				SHEET 1 OF 1
MFG. APPR.			M2024T3A				SCALE
APPROVED			TITLE				NTS
DE APPR.			2024-T3 ANGLE				
DATE	11.02.14						

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